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1 [Garbage collecting the Internet: a survey of distributed garbage collection](#)

Ads

 Saleh E. Abdullahi, Graem A. Ringwood
 September 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 3
 Publisher: ACM

Full text available: Pdf (337.65 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#),
[review](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 181, Citation Count: 5

Internet programming languages such as Java present new challenges to garbage-collection design. The spectrum of garbage-collection schema for linked structures distributed over a network are reviewed here. Distributed garbage collectors are classified ...

Keywords: automatic storage reclamation, distributed, distributed file systems, distributed memories, distributed object-oriented management, memory management, network communication, object-oriented databases, reference counting

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2 [Geometric compression through topological surgery](#)

 Gabriel Taubin, Jarek Rossignac
 April 1998 ACM Transactions on Graphics (TOG), Volume 17 Issue 2
 Publisher: ACM

Full text available: Pdf (8.98 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 132, Citation Count: 100

The abundance and importance of complex 3-D data bases in major industry segments, the affordability of interactive 3-D rendering for office and consumer use, and the exploitation of the Internet to distribute and share 3-D data have intensified the ...

Keywords: 3D mesh compression, VRML, geometry compression

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3 [Relational joins on graphics processors](#)

 Bingsheng He, Ke Yang, Rui Fang, Mian Lu, Naga Govindaraju, Qiong Luo, Pedro Sander
 June 2008 SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on Management of data
 Publisher: ACM

Full text available: Pdf (430.82 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 63, Downloads (12 Months): 138, Citation Count: 0

We present a novel design and implementation of relational join algorithms for new-generation graphics processing units (GPUs). The most recent GPU features include support for writing to random memory locations, efficient inter-processor communication, ...

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Keyw ords: graphics processors, join, parallel processing, primitive, relational database, sort

4 [SeeMon: scalable and energy-efficient context monitoring framework for sensor-rich mobile environments](#)



Seungwoo Kang, Jinwon Lee, Hyukjae Jang, Hyonik Lee, Youngki Lee, Souneil Park, Taiwoo Park, Junehwa Song

June 2008 MobiSys '08: Proceeding of the 6th international conference on Mobile systems, applications, and services

Publisher: ACM

Full text available: Pdf (716.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 85, Citation Count: 0

Proactively providing services to mobile individuals is essential for emerging ubiquitous applications. The major challenge in providing users with proactive services lies in continuously monitoring their contexts based on numerous sensors. The context ...

Keyw ords: context monitoring, context monitoring query (cmq), essential sensor set (ess), sensor control, sensor-rich mobile environment, shared and incremental processing

5 [BSGP: bulk-synchronous GPU programming](#)



Qiming Hou, Kun Zhou, Baining Guo

August 2008 ACM Transactions on Graphics (TOG), Volume 27 Issue 3

Publisher: ACM

Full text available: Pdf (2.11 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 283, Downloads (12 Months): 306, Citation Count: 0

We present BSGP, a new programming language for general purpose computation on the GPU. A BSGP program looks much the same as a sequential C program. Programmers only need to supply a bare minimum of extra information to describe parallel processing ...

Keyw ords: bulk synchronous parallel programming, programable graphics hardware, stream processing, thread manipulation

6 [BSGP: bulk-synchronous GPU programming](#)



Qiming Hou, Kun Zhou, Baining Guo

August 2008 SIGGRAPH '08: ACM SIGGRAPH 2008 papers

Publisher: ACM

Full text available: Pdf (2.11 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 283, Downloads (12 Months): 306, Citation Count: 0

We present BSGP, a new programming language for general purpose computation on the GPU. A BSGP program looks much the same as a sequential C program. Programmers only need to supply a bare minimum of extra information to describe parallel processing ...

Keyw ords: bulk synchronous parallel programming, programable graphics hardware, stream processing, thread manipulation

7 [CRAMM: virtual memory support for garbage-collected applications](#)

Ting Yang, Emery D. Berger, Scott F. Kaplan, J. Eliot B. Moss

November 2006 OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation

Publisher: USENIX Association

Full text available: Pdf (349.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 59, Citation Count: 2

Existing virtual memory systems usually work well with applications written in C and C++, but they do not provide adequate support for garbage-collected applications. The performance of garbage-collected applications is sensitive to heap size. Larger ...

8 [Finding popular categories for RFID tags](#)



Bo Sheng, Chiu Chiang Tan, Qun Li, Weizhen Mao

May 2008 MobiHoc '08: Proceedings of the 9th ACM international symposium on Mobile ad hoc networking and computing

Publisher: ACM

Full text available: Pdf (458.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 62, Downloads (12 Months): 155, Citation Count: 0

As RFID tags are increasingly attached to everyday items, it quickly becomes impractical to collect data from every tag in order to extract useful information. In this paper, we consider the problem of identifying popular categories of RFID tags out ...

Keywords: ALOHA, RFID, algorithms, data mining, group testing

9 [Simulating knitted cloth at the yarn level](#)



Jonathan M. Kaldor, Doug L. James, Steve Marschner

August 2008 SIGGRAPH '08: ACM SIGGRAPH 2008 papers

Publisher: ACM

Full text available: Pdf (17.49 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 169, Downloads (12 Months): 169, Citation Count: 0

Knitted fabric is widely used in clothing because of its unique and stretchy behavior, which is fundamentally different from the behavior of woven cloth. The properties of knits come from the nonlinear, three-dimensional kinematics of long, inter-looping ...

Keywords: cloth, constraints, knits, knitwear, simulation, yarn

10 [Simulating knitted cloth at the yarn level](#)



Jonathan M. Kaldor, Doug L. James, Steve Marschner

August 2008 ACM Transactions on Graphics (TOG), Volume 27 Issue 3

Publisher: ACM

Full text available: Pdf (17.49 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 169, Downloads (12 Months): 169, Citation Count: 0

Knitted fabric is widely used in clothing because of its unique and stretchy behavior, which is fundamentally different from the behavior of woven cloth. The properties of knits come from the nonlinear, three-dimensional kinematics of long, inter-looping ...

Keywords: cloth, constraints, knits, knitwear, simulation, yarn

11 [Exploiting a page-level upper bound for multi-type nearest neighbor queries](#)



Xiaobin Ma, Shashi Shekhar, Hui Xiong, Pusheng Zhang

November 2006 GIS '06: Proceedings of the 14th annual ACM international symposium on Advances in geographic information systems

Publisher: ACM

Full text available: Pdf (618.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 68, Citation Count: 0

Given a query point and a collection of spatial features, a multi-type nearest neighbor (MTNN) query finds the shortest tour for the query point such that only one instance of each feature is visited

during the tour. For example, a tourist may be interested ...

Keyw ords: GIS, MTNN query, location-based service

12 Remote attribute grammars



John Tang Boyland

July 2005 Journal of the ACM (JACM), Volume 52 Issue 4

Publisher: ACM

Full text available: Pdf (764.29 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 104, Citation Count: 3

Describing the static semantics of programming languages with attribute grammars is eased when the formalism allows direct dependencies to be induced between rules for nodes arbitrarily far away in the tree. Such *direct non-local* dependencies ...

Keyw ords: Language description, collection attributes, remote attribution

13 Finding hierarchical heavy hitters in streaming data



Graham Cormode, Flip Korn, S. Muthukrishnan, Divesh Srivastava

January 2008 ACM Transactions on Knowledge Discovery from Data (TKDD), Volume 1 Issue 4

Publisher: ACM

Full text available: Pdf (885.94 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 344, Citation Count: 0

Data items that arrive online as streams typically have attributes which take values from one or more hierarchies (time and geographic location, source and destination IP addresses, etc.). Providing an aggregate view of such data is important for summarization, ...

Keyw ords: Data mining, approximation algorithms, network data analysis

14 A framework for call graph construction algorithms



David Grove, Craig Chambers

November 2001 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 23 Issue 6

Publisher: ACM

Full text available: Pdf (1.36 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 201, Citation Count: 31

A large number of call graph construction algorithms for object-oriented and functional languages have been proposed, each embodying different tradeoffs between analysis cost and call graph precision. In this article we present a unifying framework for ...

Keyw ords: Call graph construction, control flow analysis, interprocedural analysis

15 Index-driven similarity search in metric spaces (Survey Article)



Gisli R. Hjaltason, Hanan Samet

December 2003 ACM Transactions on Database Systems (TODS), Volume 28 Issue 4

Publisher: ACM

Full text available: Pdf (650.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 240, Citation Count: 31

Similarity search is a very important operation in multimedia databases and other database applications involving complex objects, and involves finding objects in a data set S similar to a query object q , based on some similarity measure. ...

Keywords: Hierarchical metric data structures, distance-based indexing, nearest neighbor queries, range queries, ranking, similarity searching

16 [XSKETCH synopses for XML data graphs](#)



Neoklis Polyzotis, Minos Garofalakis

September 2006 ACM Transactions on Database Systems (TODS), Volume 31 Issue 3

Publisher: ACM

Full text available: Pdf (885.57 KB)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 150, Citation Count: 0

Effective support for XML query languages is becoming increasingly important with the emergence of new applications that access large volumes of XML data. All existing proposals for querying XML (e.g., XQuery) rely on a pattern-specification language ...

Keywords: XML, approximate query processing, data synopses, path expressions

17 [Fast online pointer analysis](#)



Martin Hirzel, Daniel Von Dincklage, Amer Diwan, Michael Hind

April 2007 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 29 Issue 2

Publisher: ACM

Full text available: Pdf (430.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 179, Citation Count: 0

Pointer analysis benefits many useful clients, such as compiler optimizations and bug finding tools. Unfortunately, common programming language features such as dynamic loading, reflection, and foreign language interfaces, make pointer analysis difficult. ...

Keywords: Pointer analysis, class loading, native interface, reflection

18 [Cache-oblivious databases: Limitations and opportunities](#)



Bingsheng He, Qiong Luo

June 2008 ACM Transactions on Database Systems (TODS), Volume 33 Issue 2

Publisher: ACM

Full text available: Pdf (1.09 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 157, Citation Count: 0

Cache-oblivious techniques, proposed in the theory community, have optimal asymptotic bounds on the amount of data transferred between any two adjacent levels of an arbitrary memory hierarchy. Moreover, this optimal performance is achieved without any ...

Keywords: Cache-oblivious, cache-conscious, chip multiprocessors, data caches, simultaneous multithreading

19 [Exploiting perception in high-fidelity virtual environments](#)



[Additional presentations from the 24th course are available on the citation page](#)

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez

July 2006 SIGGRAPH '06: ACM SIGGRAPH 2006 Courses

Publisher: ACM

Full text available: Mov (68:6 MIN), Pdf (5.07 MB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 187, Downloads (12 Months): 1625, Citation Count: 1

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception

guide important development of algorithms and techniques ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

20 [High dynamic range imaging](#)



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM

Full text available: [Pdf](#) (20.22 MB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 87, Downloads (12 Months): 800, Citation Count: 0

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent ...

Results 1 - 20 of 318

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#) [>>](#)

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